



**UC Davis: Scientific Boating and Diving Field Work
~Critical Operations Supplemental Guidelines~
Effective: 3-26-2020**

COVID-19 CA Executive Order

Overview: University of California, President Napolitano and UC Davis, Chancellor May, have issued an executive order for all individuals to stay home or at their place of residence, except as needed to maintain continuity of operation of the federal critical infrastructure sectors. This order remains in effect until further notice.

UCD Policy: <https://ucdavispolicy.ellucid.com/documents/view/1558>

CA State Guidance: <https://covid19.ca.gov/>

Research is an essential function at UC Davis and thus, scientific boating and diving project operations that campus leadership has identified as critical require that our program be defined as Essential Critical Infrastructure Workers. When possible Principle Investigators and Laboratory Managers should have ramped down non-critical field work in accordance with the Chancellor's March 20th campus wide communication.

- **Ramping Down Research:** [Laboratory Ramp-Down Checklist](#)
- **UCD Updates:** <https://www.ucdavis.edu/coronavirus/news/updates/>

Purpose: Due to the nature of the work environment all critical UC Davis Scientific Boating and Diving operations will continue with appropriate procedures in place to ensure social distancing and the health and welfare of participants are protected as much as possible during this time.

Any proposed project activity under UC Davis auspices must have special approval, on a case by case basis, with a proper endorsement from the UCD Boating and/or Diving Safety Officers, the Diving Control Board, the Principle Investigator, and the Dean, Department Chair, or Director of an organized research facility.

Some projects may also require specific endorsement from campus Safety Services and/or Risk Management.

This document serves as supplemental guidelines for boating and diving projects requiring additional time and resources to ramp down and suspend research activities, preserve life, or service critical equipment and infrastructure that could result in significant loss.

Critical Research Considerations: Any scheduling of essential / critical operations must happen in a manner that considers all risk variables and the potential for exposure to COVID-19 for each individual person well in advance. Prior to scheduling and requesting a project endorsement supervisors and managers should first ensure that the work satisfies the items identified by Vice Chancellor Prasant.

- **Research that must be maintained for the health and safety of human subjects.**
- **Research for which discontinuation would generate data and sample loss that would be effectively irreplaceable.**
- **Maintenance of critical equipment and a safe standby mode of laboratories.**
- **Maintaining critical animal populations and/or that would impact the ethical conduct of research with animal subjects.**
- **COVID-19 research with a timeline relevant to the current pandemic.**

Reminder: All research requiring in-person social interaction must be conducted with social distancing in mind. If you are sick, you must remain home and monitor your symptoms; possibly up to 14 days. Only return to work only after you have been completely free of symptoms a full 24 hours.

UCD Human Resources FAQ Page: <https://hr.ucdavis.edu/coronavirus>

Essential or Critical Operations: If it is determined that scientific boating or diving operations are essential or critical: teams must conduct an in-depth pre-mission risk assessment, employ extra measures to ensure enhanced general health precautions, bio hazard protections and ensure that decontamination methods are employed. Use the GAR risk assessment tool with a heightened emphasis on Team Fitness and Environmental considerations.

Team health and fitness must be at the forefront of all decision making and shall consider the potential for infection.

If members of the team become infected before or during the mission how will that impact their families and greater community?

Team and personal considerations:

- How many team members are needed to safely and effectively accomplish the mission?
- What is the possibility that someone on the team may be infected due to their potential for exposure outside of the mission?
- Where are each of the boat crew / dive team for this mission coming from?
- What has been the potential exposure level for you and your family?
 - (Hot zones with high potential or A- symptomatic persons)
- How will you exercise protective measures to and from the lab or research site?
- Can you avoid potential contamination while interacting with coworkers in a confined area?
- What additional items can reduce risks during the mission?
 - (Protective gloves, eye protection, masks, regular cleaning of surfaces, soap & water, antibacterial sanitizers...)
- What are the ramifications if you become exposed and return home to your family/community?

Travel Considerations: UC Davis Boating and Diving research extends to nearly every county across the state of California and beyond our state and national borders. Each team must perform an additional risk assessment and implement critical protocols prior to travel and engaging in close quarters human contact. All travel must be approved and registered with the UC Davis travel system.

UCD Travel System: <https://supplychain.ucdavis.edu/travel-entertainment>

It is very important to know where you are going and where your transit routes will take you. Check local COVID-19 State and County infection updates and legal requirements prior to traveling to any research sites; some counties require written permits from the county Health Department for any non-essential / critical activities.

CDC Updates: <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

USA State & County Updates: <https://usafacts.org/visualizations/coronavirus-covid-19-spread-map/>

Project Safety Plans: Individual safety plans should be updated and amended by PI's and Lab managers to include additional work place precautions, new operational step procedures for bio- hazard PPE and to ensure social distancing when handling equipment. Also include any additional equipment that will be provided.

You must also account for the implications should there be a boating or diving related emergency; will emergency care be available, will the emergency response further strain emergency services and personnel or lead to potential exposure for members of the team?

Participation PPE Guidelines: It should be documented that team members are trained in the proper use of PPE; fit testing masks, respirators, special clothing, donning, removal and disposal, and are aware of their individual and collective responsibilities to prevent exposure and the contamination of others. Each team member / participant must communicate their understanding and acceptance, and be offered the opportunity to not participate without any undue pressure or concern for reprisal.

Scientific Diving: **[NOTE]** *Additional diving guidelines and protocols will be provided by through UC Davis Diving Control Board.*

General Precautions: Should the mission be approved and take place it is important to employ all the measures with earnest.

- **All hands must wear gloves throughout the work place, change and replace them frequently.**
- **Soap and clean water, disinfectant spray and wipes must be provided and used regularly.**
- **Apply disinfectant to all interior and common surfaces / equipment before, during, and after the mission.**
- **Maintain 6'-10' social distancing, avoid sharing of items to all extent possible.**
- **Disinfect yourself and any items prior to engaging with others, or transiting to another location and before returning home.**

Summary: It is understandable that these measures and precautions may appear to be difficult or extreme, but if followed and employed as necessary it will severely limit the transmission of the virus and rates of infection. Directives from community health managers, Medical First Responders, Emergency Room physicians, resident Epidemiologists, and county supervisors Emergency Operations Center briefings indicate that our every action outside of the home should be with caution and a necessary specific purpose. Small actions can make a big difference for better or worse.

Some of the general community have still not taken heed and it is expected that transmission and detection of the Covid-19 virus will increase during the weeks ahead. It is not safe to assume that others know how to employ general precautions and we don't know how others conduct themselves and who they have been in contact with prior to engaging with us.

A heightened sense of situational awareness with limited movements and interactions will continue to be essential for our well-being and the general public health.

Safety Support: Please contact your supervisors, managers and your UCD Diving and Boating Safety Officers with any questions and for specific guidance to help maintain critical functions involving any boating and diving operations. Thank you and keep well!

James Fitzgerald-UCD Boating Safety Officer: jjfitzgerald@ucdavis.edu

707-875-1933 Office / 707-217-6047 Mobile

Jason Herum-UCD Diving Safety Officer: jsherum@ucdavis.edu

707-875-2032 Office / 707-774-5052 Mobile

All Staff Email: boating@ucdavis.edu